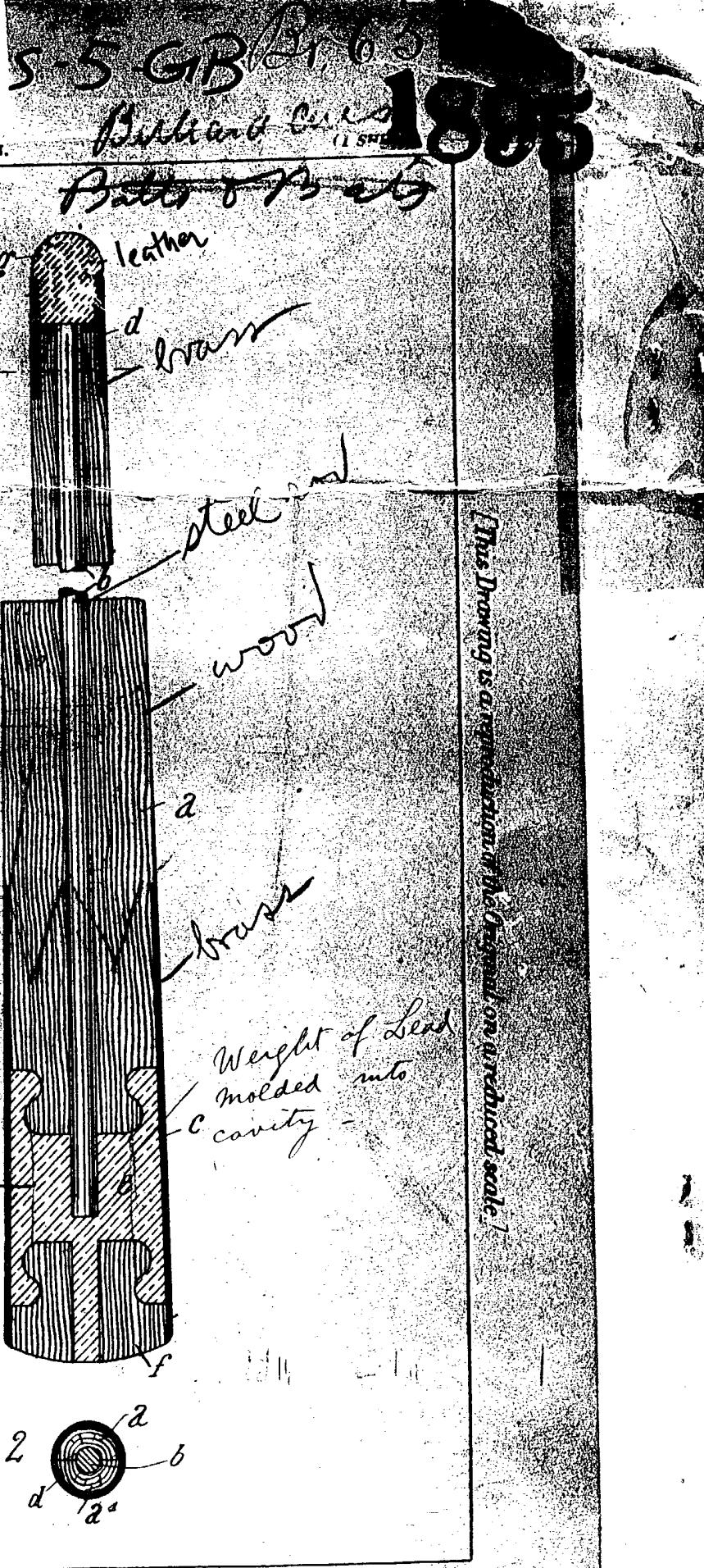


SPECIFICATION.





Date of Application, 29th Mar., 1895—Accepted, 4th May, 1895

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COMPLETE SPECIFICATION.

Improvements in Billiard Cues.

Emil Lissner, Merchant of Niederbischöflich, near Düsseldorf in the Empire Germany, do hereby declare the nature of this invention and in what manner the same is to be performed to be particularly described and ascertained in and by the following statement:

This invention consists in a billiard cue, the weight of which is increased by means of insertions of steel or lead while the point receives greater elasticity by use of a thicker leather tip than is generally employed, said tip being screwed into a socket made to receive it.

In the annexed drawing Fig. 1 represents the end of a billiard cue, Fig. 2 a transverse section through the point encased in a wooden sleeve.

The cue in the first place consists of two cylindrical wooden parts *a*, *a'*, and a central steel rod *b*. These parts are glued up together, and moreover held together by a brass collar (*c*) and a small (preferably brass) screw (*d*). In order to obtain the elasticity required in the lower part of the cue, an insertion *e* is cast into it the lower part of the wooden end of the cue, and a leather collar *f* is screwed on to the upper end of the cue, the latter receiving at its other end the leather tip *g*. In consequence of the great thickness of the latter, which is capable of considerable elasticity, a harder and more elastic stroke is obtained.

It may be added that the said leather tip when worn down, can be renewed by a small disk of leather such as the ordinary cue tip to which it is attached and cemented on to the point.

I now particularly describe and ascertain the nature of my invention and in what manner the same is to be performed, I declare that what I

call a billiard cue, consisting of wooden sleeves (*a*, *a'*) and steel core (*b*) inside, these parts are glued up and also held together by brass collars (*c*, *d*), the lower part of the said cue being increased in weight by an insertion of lead (*e*), and the upper end or point is rendered elastic by means of a leather tip (*g*) cemented into the collar (*f*).

Dated this 29th day of March 1895.

HERR
18, Buc'

V.C.,

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